

ABSTRACT

The invention relates to a medium for the autologous culture of autologous human progenitor stem cells, which comprises: between 0.1 and 90 wt.-% autologous human serum; between 0.1 and 10,000 UI/ml heparin; between 0.1 and 10,000 UI/ml protamine; and a culture medium consisting of basic nutrients with or without glutamine, in a sufficient quantity to make up 100 wt.-%, which can be used to culture and expand autologous human progenitor stem cells. Compositions containing said cells can be implanted in the patient using an autologous cellular cardiomyoplasty method in order to create, regenerate and repair dysfunctional myocardial tissue.